You will be required to construct a model of a plant OR animal cell. All models must be made out of materials that will not spoil. Your project must be labeled. You may label each part of the cell or create a key. The labels must include the name of the cell part and its function. Use the questions in the grading section to help you develop a good project.

Each model must include the following parts:

• Cell wall (if plant cell) • Ribosomes

• Cell membrane • Mitochondria

• Nucleus • Lysosomes (if animal cell)

• Nucleolus • Endoplasmic Reticulum

• Vacuoles • Chloroplasts (if plant cell)

• Cytoplasm • Golgi Bodies

**Grading:**

Grades will be based on the following questions:

* Is your name on the project?
* Is the cell type identified? Tell if it is a plant or animal cell.
* Is the model a 3-D representation of a plant or animal cell?
* Are all the cell parts included? (11 for plants cells, 10 for animal cells)
* Are the parts of the cell correctly labeled? Each part must be labeled with its name and function OR a key must be attached with this information.
* Are the relationships between the parts shown correctly? Are the ribosomes on the endoplasmic reticulum? Is the endoplasmic reticulum near the nucleus?
* Are the materials acceptable? The materials cannot be food products.

**Cell Model Planning:**

Type of Cell: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **Cell Part** | **Material You Will Use** |
| Cell Wall (plant cell only) |  |
| Cell Membrane |  |
| Nucleus |  |
| Nucleolus |  |
| Vacuoles |  |
| Cytoplasm |  |
| Ribosomes |  |
| Mitochondria |  |
| Lysosomes (animal cell only) |  |
| Endoplasmic Reticulum |  |
| Chloroplasts (plant cell only) |  |
| Golgi Body |  |